

function

SCITEQ-X-ACT uses advanced x-ray scanning technology to measure multi-layer pipes on-line. The unique and patented technique provides accurate measurement of individual layer thicknesses, densities and ovality of most multi-layer pipe constructions.

highlights

- absolute measurement
- no calibration
- material savings
- non-temperature dependant
- patented design
- low operating cost
- pipe ovality

features

The measurement technique is non-destructive and completely temperature independent. The unit can be used on or off line, it can even be moved from one line to another without having to stop the extrusion process thanks to its innovative mechanical construction.



We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

construction

SCITEQ X-ACT has been designed with the needs of the pipe manufacturer in mind. A unique feature of the special construction is the ability of the machine to move in and out of line without the normal need to stop the extrusion process, as both curved shields can be opened. Great care has been taken to select high quality components for the continuous duty of the machine. The operator interface is based on an Industrial 15" touch screen which can be located directly on the machine or remotely according to the customer preference. Due to its scanning principal, measurements can be focused on any angle of the pipe.

Annual material costs	Pay back calculation
extruder output	650,00 kg/h
extruder hours per day	24,00 h/day
number of days per year	230,00 days/year
material price	1,25 €/kg
annual material costs	4.485.000,00 €/year
Annual savings :	
annual material costs	4.485.000,00 €/year
expected savings	4,00 %
annual savings	179.400,00 €/year
Pay-back time:	
purchase price of the X-ACT200	100.130,00 €
annual savings	179.400,00 €/year
pay-back time	0,6 years

Example of pay-back time with material savings.

optional | equipment

haul-off control

thermal centration

network connection

remote access

scanning times
 measurement accuracy, standard deviation
 dimensions and wall thickness results

density difference required to measure individual layers:
 pipe dimension

maximum diameter (O.D.)
 minimum diameter (O.D.)

dimension

length
 width
 height without warning light tower
 height with warning light tower
 centre height of pipe through X-ACT

X-ACT 200

2-10 sec.
 better than 0,05 mm
 wall thickness of each layer
 density of each layer
 layer ovality
 inner diameter
 outer diameter
 total pipe ovality

0,2g/cm³

ø200 mm
 ø32 mm

1000 mm
 1465 mm
 2000 mm
 2500 mm
 1100 +/- 50 mm

X-ACT 355

2-15 sec.
 better than 0,05 mm
 wall thickness of each layer
 density of each layer
 layer ovality
 inner diameter
 outer diameter
 total pipe ovality

0,2g/cm³

ø355 mm
 ø32 mm

1050 mm
 1700 mm
 2000 mm
 2500 mm
 1200 +/- 50 mm

X-ACT 630

5-30 sec.
 better than 0,05 mm
 wall thickness of each layer
 density of each layer
 layer ovality
 inner diameter
 outer diameter
 total pipe ovality

0,2g/cm³

ø630 mm
 ø90 mm

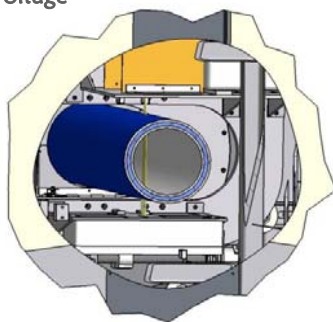
1050 mm
 2800 mm
 2800 mm
 3200 mm
 1200 +/- 50 mm

SCITEQ operator touch panel:

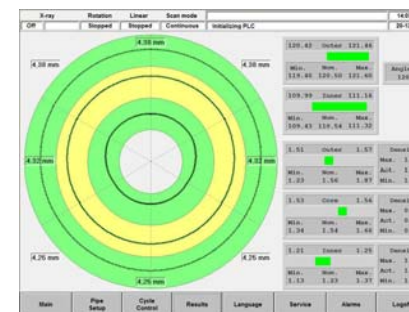
touch panel
 operating system
 VGA Port
 power supply
 touch panel dimensions
 cabinet with touch panel dimensions
 main electrical supply voltage

X-ACT 200, X-ACT 355 & X-ACT 630

15"
 windows XP
 D-SUB 15 pin (2.5W stand-by)
 220V 50/60Hz 35W
 LxWxH = 379,4x285,4x57mm
 LxWxH = 419,0x315,0x100mm
 3x400V + N + PE 50 Hz, max. Fuse: 16 A



the system can either scan in a static plane or at several selectable positions, or at many particular angle positions. The scanner unit can rotate up to 179° for complete 360° circumference measurement.



touch screen operator panel with remote access as standard.

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optional | equipment

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